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# Catalytic Properties and Atomic Structure of Bimetallic Nanoparticles

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### Message from the Guest Editors

Bimetallic nanoparticles (NPs), composed of two different metals, are of great interest from both a scientific and technological point of view. Their electronic and structural properties need to be studied at an atomic scale as they strongly influence the catalytic properties of surfaces. Synchrotron-based X-ray absorption fine structure spectroscopy (XAFS) has evolved as a well-established technique for understanding the local atomic structure in bimetallic NPs enabling also in situ and/or real-time changes studies. On the other hand, scanning and transmission electron microscopy techniques provide structural, morphological, information about the compositional, and textural properties of these materials. Furthermore, XAFS and electron microscopy techniques can be fruitfully combined with other advanced characterization techniques to properly correlate and understand the structure-function relationships in these materials. The present Special Issue will present recent developments in the synthesis, characterization, and use of bimetallic nanoparticles in the field of catalysis. Studies focused on the structure-activity/selectivity relationship in bimetallic NPs









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### **Editor-in-Chief**

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### Message from the Editor-in-Chief

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